

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica North Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

TestAmerica Job ID: 240-4282-1

Client Project/Site: Duke MF 2011 LL Hg - J11090495

For:

Duke Energy Corporation 139 East Fourth Street ex 510 Cincinnati, Ohio 45202

Attn: Ms. Sue Wallace

Denise Po Authorized for release by: 10/06/2011 10:07:51 AM

Denise Pohl Project Manager II

denise.pohl@testamericainc.com

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Definitions/Glossary

Client: Duke Energy Corporation

Project/Site: Duke MF 2011 LL Hg - J11090495

TestAmerica Job ID: 240-4282-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

These commonly used abbreviations may or may not be present in this report.
Listed under the "D" column to designate that the result is reported on a dry weight basis
Percent Recovery
Contains no Free Liquid
Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Estimated Detection Limit
United States Environmental Protection Agency
Method Detection Limit
Minimum Level (Dioxin)
Not detected at the reporting limit (or MDL or EDL if shown)
Practical Quantitation Limit
Reporting Limit
Relative Percent Difference, a measure of the relative difference between two points
Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

TestAmerica North Canton 10/06/2011

Case Narrative

Client: Duke Energy Corporation

Project/Site: Duke MF 2011 LL Hg - J11090495

TestAmerica Job ID: 240-4282-1

Job ID: 240-4282-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Duke MF 2011 LL Hg - J11090495

Report Number: 240-4282-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

The samples were received on 09/28/2011; the samples arrived in good condition. The temperature of the coolers at receipt was 17.8 C.

LOW LEVEL MERCURY

Samples 601(7) WWT (240-4282-1), 601(7) WWT DUP (240-4282-2), 601(8) WWT (240-4282-3), 601(8) WWT DUP (240-4282-4) and TRIP BLANK (240-4282-5) were analyzed for Low Level Mercury in accordance with EPA Method 1631E. The samples were analyzed on 10/03/2011.

Samples 601(7) WWT (240-4282-1)[100000X], 601(7) WWT DUP (240-4282-2)[100000X], 601(8) WWT (240-4282-3)[100000X] and 601(8) WWT DUP (240-4282-4)[100000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

TestAmerica Norti

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Method Summary

Client: Duke Energy Corporation

Project/Site: Duke MF 2011 LL Hg - J11090495

TestAmerica Job ID: 240-4282-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

Client: Duke Energy Corporation

Project/Site: Duke MF 2011 LL Hg - J11090495

TestAmerica Job ID: 240-4282-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-4282-1	601(7) WWT	Water	09/26/11 16:05	09/28/11 09:45
240-4282-2	601(7) WWT DUP	Water	09/26/11 16:10	09/28/11 09:45
240-4282-3	601(8) WWT	Water	09/26/11 16:20	09/28/11 09:45
240-4282-4	601(8) WWT DUP	Water	09/26/11 16:25	09/28/11 09:45
240-4282-5	TRIP BLANK	Water	09/26/11 00:00	09/28/11 09:45

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4

5

6

8

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Detection Summary

Client: Duke Energy Corporation

Project/Site: Duke MF 2011 LL Hg - J11090495

TestAmerica Job ID: 240-4282-1

Client Sample ID: 601(7) WWT Lab Sample ID: 240-4282-1

 Analyte
 Result
 Qualifier
 RL
 Unit
 Dil Fac
 D
 Method
 Prep Type

 Mercury
 22000
 50000
 ng/L
 100000
 1631E
 Total/NA

Client Sample ID: 601(7) WWT DUP

Lab Sample ID: 240-4282-2

 Analyte
 Result
 Qualifier
 RL
 Unit
 Dil Fac
 D
 Method
 Prep Type

 Mercury
 350000
 50000
 ng/L
 100000
 1631E
 Total/NA

Client Sample ID: 601(8) WWT Lab Sample ID: 240-4282-3

Client Sample ID: 601(8) WWT DUP

Lab Sample ID: 240-4282-4

 Analyte
 Result
 Qualifier
 RL
 Unit
 Dil Fac
 D
 Method
 Prep Type

 Mercury
 200000
 50000
 ng/L
 100000
 1631E
 Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-4282-5

No Detections

TestAmerica Job ID: 240-4282-1

Client Sample ID: 601(7) WWT

Date Collected: 09/26/11 16:05 Date Received: 09/28/11 09:45

Lab Sample ID: 240-4282-1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Dil Fac

100000

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte RL Result Qualifier Unit Dil Fac Prepared Analyzed 50000 ng/L 09/30/11 15:30 10/03/11 10:15 Mercury 220000 100000

Lab Sample ID: 240-4282-2

Client Sample ID: 601(7) WWT DUP

Date Collected: 09/26/11 16:10 Date Received: 09/28/11 09:45

Analyzed

10/03/11 10:32

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte RL Result Qualifier Unit Prepared Dil Fac 50000 Mercury 350000 ng/L 09/30/11 15:30 10/03/11 10:24 100000

Client Sample ID: 601(8) WWT Lab Sample ID: 240-4282-3

Date Collected: 09/26/11 16:20

Date Received: 09/28/11 09:45

Method: 1631E - Mercury, Low Level (CVAFS) Analyte RL Result Qualifier

Unit

ng/L

D

Prepared

09/30/11 15:30

50000 Client Sample ID: 601(8) WWT DUP Lab Sample ID: 240-4282-4

Date Collected: 09/26/11 16:25

Mercury

Date Received: 09/28/11 09:45

Method: 1631E - Mercury, Low Level (CVAFS)

210000

Analyte Result Qualifier RL Unit Prepared Analyzed 50000 09/30/11 15:30 Mercury 200000 ng/L 10/03/11 10:41 100000

Client Sample ID: TRIP BLANK Lab Sample ID: 240-4282-5

Date Received: 09/28/11 09:45

Date Collected: 09/26/11 00:00 Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte RL Result Qualifier Unit Prepared Dil Fac Analyzed 0.50 Mercury 0.50 U ng/L 09/30/11 15:30 10/03/11 12:16

QC Sample Results

Client: Duke Energy Corporation

Project/Site: Duke MF 2011 LL Hg - J11090495

TestAmerica Job ID: 240-4282-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-17534/1-A

Lab Sample ID: LCS 240-17534/2-A

Matrix: Water

Matrix: Water

Analyte

Mercury

Analysis Batch: 18016

Analysis Batch: 18016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17534

MB MB

RL Analyte Result Qualifier Unit D Dil Fac Prepared Analyzed 0.50 ng/L 09/30/11 15:30 10/03/11 12:51 Mercury 0.50 U

Spike

Added

5.00

LCS LCS

4.32

Result Qualifier

Unit

ng/L

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17534

% Rec.

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QC Association Summary

Client: Duke Energy Corporation

Project/Site: Duke MF 2011 LL Hg - J11090495

TestAmerica Job ID: 240-4282-1

Metals

Prep Batch: 17534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-4282-1	601(7) WWT	Total/NA	Water	1631E	_
240-4282-2	601(7) WWT DUP	Total/NA	Water	1631E	
240-4282-3	601(8) WWT	Total/NA	Water	1631E	
240-4282-4	601(8) WWT DUP	Total/NA	Water	1631E	
240-4282-5	TRIP BLANK	Total/NA	Water	1631E	
LCS 240-17534/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-17534/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 18016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-4282-1	601(7) WWT	Total/NA	Water	1631E	17534
240-4282-2	601(7) WWT DUP	Total/NA	Water	1631E	17534
240-4282-3	601(8) WWT	Total/NA	Water	1631E	17534
240-4282-4	601(8) WWT DUP	Total/NA	Water	1631E	17534
240-4282-5	TRIP BLANK	Total/NA	Water	1631E	17534
LCS 240-17534/2-A	Lab Control Sample	Total/NA	Water	1631E	17534
MB 240-17534/1-A	Method Blank	Total/NA	Water	1631E	17534

0

4.0

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Client: Duke Energy Corporation Project/Site: Duke MF 2011 LL Hg - J11090495

Client Sample ID: 601(7) WWT

Date Collected: 09/26/11 16:05 Date Received: 09/28/11 09:45

Lab Sample ID: 240-4282-1

Matrix: Water

İ		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
	Total/NA	Prep	1631E			17534	09/30/11 15:30	CJ	TAL NC
İ	Total/NA	Analysis	1631E		100000	18016	10/03/11 10:15	CJ	TAL NC

Client Sample ID: 601(7) WWT DUP

Date Collected: 09/26/11 16:10 Date Received: 09/28/11 09:45

Lab Sample ID: 240-4282-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			17534	09/30/11 15:30	CJ	TAL NC
Total/NA	Analysis	1631E		100000	18016	10/03/11 10:24	CJ	TAL NC

Client Sample ID: 601(8) WWT

Date Collected: 09/26/11 16:20

Date Received: 09/28/11 09:45

Lab Sample ID: 240-4282-3

Lab Sample ID: 240-4282-4

Lab Sample ID: 240-4282-5

Matrix: Water

Matrix: Water

Matrix: Water

TAL NC

Prepared Batch Batch Dilution Batch Method Prep Type Type Run Factor Number Or Analyzed Analyst Lab Total/NA Prep 1631E 17534 09/30/11 15:30 CJ TAL NC Total/NA 1631E 18016 10/03/11 10:32 CJ TAL NC Analysis 100000

Client Sample ID: 601(8) WWT DUP

Date Collected: 09/26/11 16:25

Date Received: 09/28/11 09:45

	Batch -	Batch	_	Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			17534	09/30/11 15:30	CJ	TAL NC
Total/NA	Analysis	1631E		100000	18016	10/03/11 10:41	CJ	TAL NC

Client Sample ID: TRIP BLANK

Batch

Туре

Prep

Analysis

Batch

Method

1631E

1631E

Date Collected: 09/26/11 00:00

Date Received: 09/28/11 09:45

ı	Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
	Total/NA	Prep	1631E			17534	09/30/11 15:30	CJ	TAL NC
l	Total/NA	Analysis	1631E		100000	18016	10/03/11 10:41	CJ	TAL NC

Batch

17534

18016

10/03/11 12:16

Number

Dilution

Factor

1

Prepared Or Analyzed Analyst Lab 09/30/11 15:30 CJ TAL NC

CJ

Laboratory References:

Prep Type

Total/NA

Total/NA

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Run

Certification Summary

Client: Duke Energy Corporation

Project/Site: Duke MF 2011 LL Hg - J11090495

TestAmerica Job ID: 240-4282-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
estAmerica North Canton	Kansas	NELAC	7	E-10336
estAmerica North Canton	Kentucky	State Program	4	58
estAmerica North Canton	Minnesota	NELAC	5	039-999-348
estAmerica North Canton	Nevada	State Program	9	OH-000482008A
estAmerica North Canton	New Jersey	NELAC	2	OH001
estAmerica North Canton	New York	NELAC	2	10975
estAmerica North Canton	Ohio	OVAP	5	CL0024
estAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-11-00328
estAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
estAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Chain	TestAmerica Laboratory location: Regulatory program: DW		E whene?	13 651 - 3440	6-wagner (B WSCOT). Com		Method of Shipment/Carrier:	Shipping/Tracking No:	Matrix	Sample Date Sample Time Air Solid Solid	x 5091 1/26	1, 1610 K	x 0191	1 1625 4	*			Poison B		•	Pare Time: 1	thwite gooth	ny: Datefrime	
	TestAmerica	Client Contact	Name: OIKE ENERGY	m Lover Station	Chy/State/Zip: N. REND, OH/O MY	Phone:	Project Name: Dinke ME 2011 16 Km	9813	P O#	Sample Identification Samp	601 (7) WWT 9/	(601 (7) WWT DUP	601 (8) WUT	601 (8) WWT Dro	They BLANK			Possible Hazard Identification Non-Hazard	Special instructions (QC Requirements & Comments:		. 27-7-	Relinenished by:	Company:	C2008, TostAmerica Laboratories, Inc. All rights reserved. TastAmerica & Oesican ™ are fractaments of TresAmerica Laboratories, Inc.

TestAmerica Cooler	Receipt Form/Narrative	Lot Number:	
North Canton Facility		<u> </u>	11/1/
Client OUKE #	recoy Project_	MF By:	Water ter
Cooler Received on 7.3	Y Doned on	28 5001 2011	(Signature)
FOREY 🖾 UPS 🗍 DHL [☐ FAS ☐ Stetson ☐ Client Dro	p Off 🔲 TestAmerica Courier 🗌	Other
TestAmerica Cooler #	S 751 Multiple Coolers	Foam Box Client Cooler C	Otner
1 Were custody seals on	the outside of the cooler(s)? Yes	No ☐ Intact? Yes ∑	₹ No 🗌 NA 🔲
If YES, Quantity	Quantity Uns	alvageable	•
Wore custody seals on	the outside of cooler(s) signed ar	d dated? Yes	⅓ No □ NA □
Were custody seals on		Yes [] No 🔼
If YES, are there any e			
2. Shippers' packing slip	attached to the cooler(s)?	Yes 🖪	√ No □
2. Shippers packing ship	company the sample(s)? Yes 🖄	No ☐ Relinguished	by client? Yes 🔯 No 🗌
3. Did custody papers acc	ers signed in the appropriate place		ĺ No □
4. Were the custody paper	Bubble Wrap 🗷 Foam 🗟		1 RAG
5. Packing material used:	on receipt 17.8 °C Se	hack of form for multiple cooler	
6. Cooler temperature up	on receipt 1418 C Sec	B Dack of form for maniple cooler	o/te.iipo 🗀
METHOD: IR		Water ☐ None ☑	
COOLANT: Wet Ice	Blue Ice Dry Ice	Vac D	∛ No □
7. Did all bottles arrive in	good condition (Unbroken)?	Yes 🗹	
8. Could all bottle labels b	be reconciled with the COC?	Yes [] No □ NA ☑
9. Were sample(s) at the	correct pH upon receipt?	Yes 🖟	-/
10. Were correct bottle(s)	used for the test(s) indicated?		No NA
11. Were air bubbles >6 m	im in any VOA vials?	Yes L	I No □ NA □
12. Sufficient quantity rece	eived to perform indicated analyses	Yes E	yoo □ No ⊠
13. Was a trip blank prese	nt in the cooler(s)? Yes 🔼 No	Were VOAs on the COC?	Yes No A
Contacted PM	Date t	y via verbai L	
Concerning			
14. CHAIN OF CUSTOD			
The following discrepancie			
HIBH TEMY OK	y LVHG-		
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15. SAMPLE CONDITION	Villagina in an anti-	eceived after the recommended	holding time had expired
Sample(s)	wele i	were received	ved in a broken container.
Sample(s)		vere received with bubble >6 mm	
Sample(s)		vere received with bubble >0 min	Tirr diameter. (Notify 1 10)
16. SAMPLE PRESERVA			enved in Sample
Sample(s)		were further pres	
Receiving to meet recomm	nended pH level(s). Nitric Acid Lot#	TIO4TO-MINO3, SUITURE ACID LOL# T	tate I of# 100108-
Hydroxide Lot# 121809 -Nat	OH; Hydrochloric Acid Lot# 041911-	oi, Souluiti Hydroxide and Ziric Ace ample(s)?	TOUTO MOLIT TOU TOU
	t time was preservative added to s pH		Date Initials
Client ID	<u>pr</u>		PAST IIIIAIO

Client ID	y man between the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of the policy of th	Date	Initia
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Login Sample Receipt Checklist

Client: Duke Energy Corporation Job Number: 240-4282-1

Login Number: 4282 List Source: TestAmerica North Canton

List Number: 1 Creator: Sutek, Nick

Creator: Sutek, Nick		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	17.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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